

Response of Maturity Group V conventional soybean cultivars to stem canker, 2017.

Company/Cultivar	Stem canker rating^{1,2}	Cultivar designation³
J77-339 (check)	5.5 b-d	MS
Go Soy 56C16	0.5 e	R
LSU LA560512	7.8 ab	S
Univ. of Arkansas Osage (R98-1821)	6.5 a-c	MS
Univ. of Arkansas R09-430	3.6 de	MR
Univ. of Arkansas R11-7999	6.8 a-c	MS
Univ. of Arkansas R11-8346	4.1 c-e	MR
Univ. of Arkansas UA 5014C(R05-3239)	5.1 c-e	MS
Univ. of Arkansas UA 5814HP(R09-3789)	6.5 a-d	MS
Univ. of Missouri S11-17025	8.5 a	S
Univ. of Missouri S11-20124	7.7 ab	S
Univ. of Missouri S13-1955C	5.8 a-d	MS
USDA-ARS JTN-5110	6.8 a-c	MS
MSE (0.05)	119.82	-
CV (%)	42.93	-
<i>P</i> -value for F-statistic	0.0008	-

¹Stem Canker Reaction-Eight plants per plot were inoculated with infested toothpicks. Ratings were given by individual plant reaction using a modified 0-9 scale based on lesion severity and are presented as the average for the eight plants. Where a lesion did not appear, a rating of 0 (Resistant) was assessed. Ratings were assessed based on the presence of a lesion whereby a reaction that produced a visible lesion that did not expand up the length of the stem was assessed as a 1. Dead plants with lesions that extended up most of the plant's length received a score of 9.

²Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD ($P=0.05$).

³By using the Mean Disease Rating, a standardized designation system is as follows: 1 = Resistant, 3 = Moderately Resistant, 5 = Moderately Susceptible and 7 = Susceptible.